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CD8a Antibody [Hit8a] (APC)

CATALOG NUMBER: 76-644

Specifications

SPECIES REACTIVITY:	Human
TESTED APPLICATIONS:	FACS
USER NOTE:	Optimal dilutions for each application to be determined by the researcher.
SPECIFICITY:	The Hit8a monoclonal antibody reacts with the human CD8a molecule, a 32 kDa cell surface receptor expressed either as a heterodimer (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha) on the majority of thymocytes, a subpopulation of mature T cells, and natural killer cells.
HOST SPECIES:	Mouse

Properties

PURIFICATION:	The monoclonal antibody was purified utilizing affinity chromatography and unreacted dye was removed from the product.
PHYSICAL STATE:	liquid
BUFFER:	Phosphate-buffered aqueous solution, ≤0.09% Sodium azide, may contain carrier protein/stabilizer, ph7.2.
CONCENTRATION:	5 uL (0.125 ug) / test
STORAGE CONDITIONS:	The product should be stored undiluted at 4˚C and should be protected from prolonged exposure to light. Do not freeze.
CLONALITY:	Monoclonal
ISOTYPE:	Mouse IgG1, kappa
CONJUGATE:	APC

Additional Info

ALTERNATE NAMES:	CD8, MAL, p32, Leu2, CD8A
OFFICIAL SYMBOL:	CD8A
GENE ID:	925

Background

BACKGROUND:	The Hit8a monoclonal antibody reacts with the human CD8a molecule, a 32 kDa cell surface receptor expressed either as a heterodimer (CD8 alpha/beta) or as a homodimer (CD8 alpha/alpha) on the majority of thymocytes, a subpopulation of mature T cells, and natural killer cells. CD8 interacts with the major histocompatibility complex class I (MHC class I) molecules on antigen-presenting cells or epithelial cells. The Hit8a antibody reacts with 13-48% of peripheral lymphocytes, 80% of thymocytes, and a subset of natural killer cells. HIT8a, RPA-T8, and OKT8 antibodies do not compete with each other for binding to peripheral leukocytes, meaning that that they do not recognize the same epitope or block each other by steric hindrance.
REFERENCES:	1) Salem, M. L., Hossain, M. S. (2000). In vivo acute depletion of CD8+ T cells before murine cytomegalovirus infection upregulated innate antiviral activity of natural killer cells. International journal of immunopharmacology,22(9), 707-718.
	2) Kruisbeek, A. M. (1991). In Vivo Depletion of CD4 and CD8 Specific T Cells.Current protocols in immunology, 4-1.

3) Davies, A., Kalb, S., Liang, B., Aldrich, C. J., Lemonnier, F. A., Jiang, H., ... Soloski, M. J. (2003). A peptide from heat shock protein 60 is the dominant peptide bound to Qa-1 in the absence of the MHC class Ia leader sequence peptide Qdm.The Journal of Immunology,170(10), 5027-5033.

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